

Notice of Allowability

Application No.

09/896,416

Examiner

John Pezzlo

Applicant(s)

HARPER, JOHN

Art Unit

2662

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to application filed 28 June 2001.
2. ☒ The allowed claim(s) is/are 1-56.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☐ All b) ☐ Some* c) ☐ None of the:
 1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
 5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☒ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☒ Information Disclosure Statements (PTO-1449 or PTO/SB/08),
Paper No./Mail Date 28 February 2002
4. ☐ Examiner's Comment Regarding Requirement for Deposit
of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☐ Interview Summary (PTO-413),
Paper No./Mail Date _____
7. ☒ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☒ Other See Continuation Sheet.


JOHN PEZZLO
PRIMARY EXAMINER

Continuation of Attachment(s) 9. Other: Drawings filed 28 June 2001 are accepted by the examiner.

DETAILED ACTION

EXAMINER'S AMENDMENT

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it **MUST** be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Godfrey K. Kwan on 12 September 2005.

The claims have been amended as follows:

1. Claim 1, line 9, changed "with first second node" to -- with the second node --.

Allowable Subject Matter

Claims 1-56 are allowable over the prior art of record.

Reasons for Allowance

The following is an examiner's statement of reasons for allowance: Applicant has claimed the following uniquely distinct features in the instant invention, which are not found in the prior art, either singularly or in combination:

1. Regarding claim 1 - A method for generating network topology information, the method comprising: identifying a first link state packet associated with a first node, identifying a second link state packet associated with a second node, generating network topology information associated with the first node using information from the first link state packet, and deferring verification of two-way connectivity checking between the first node and the second node until analysis of second link state packet is initiated for generating network topology information associated with the second node.
2. Regarding claim 16 - A method for generating network topology information, the method comprising: receiving link state packets from a plurality of network nodes, performing a single scan of the link state packets from the plurality of network nodes to generate network topology information associated with the plurality of network nodes, wherein the single scan performs two-way connectivity checking between two or more network nodes.
3. Regarding claim 18 - A method for generating a network topology, the method comprising: generating first network topology information using a first link state packet from a first node, and generating second network topology information using a second link state packet from a second node, wherein generating second network topology information comprises performing two-way connectivity verification between the first node and the second node.
4. Regarding claim 20 - A computer program product comprising a machine readable medium on which is provided program instructions for generating a network topology, the

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computer program product comprising: computer code for generating first network topology information using a first link state packet from a first node, and computer code for generating second network topology information using a second link state packet from a second node, wherein generating second network topology information comprises performing two-way connectivity verification between the first node and the second node.

5. Regarding claim 32 - An apparatus for generating network topology information, the apparatus comprising: memory, at least one processor coupled with memory, and at least one interface, the processor being configured to generate first network topology information using a first link state packet from a first node and generate second network topology information using a second link state packet from a second node, wherein generating second network topology information comprises performing two-way connectivity verification between the first node and the second node.

6. Regarding claim 46 - An apparatus for generating network topology information, the apparatus comprising: means for identifying a first link state packet associated with a first node, means for identifying a second link state packet associated with a second node, means for generating network topology information associated with the first node using information from the first link state packet, and means for deferring verification of two-way connectivity checking between the first node and the second node until analysis of second link state packet is initiated for generating network topology information associated with second node.

The closest prior art, either singularly or in combination, fail to anticipate or render the above limitations obvious.

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Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

Claims 1-56 being allowable, **Prosecution On The Merits Is Closed** in this application.

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

1. Dobbins et al. (US 5,825,772) discloses distributed connection-oriented services for switched communication networks.
2. Callon et al. (5,251,205) discloses a multiple protocol routing.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to John Pezzlo whose telephone number is (571) 272-3090. The examiner can normally be reached on Monday to Friday from 8:30 AM to 4:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Hassan Kizou, can be reached on (571) 272-3088. The fax phone number for the organization where this application or proceeding is assigned is (571) 273-8300.

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Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (571) 272-2600.

Any response to this action should be mailed to:

Commissioner of Patents and Trademarks

Washington, D.C.

or faxed to:

(571) 273-8300

For informal or draft communications, please label "PROPOSED" or "DRAFT"

Hand delivered responses should be brought to:

Jefferson Building

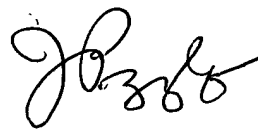
2A15

500 Dulany Street

Alexandria, VA, 22313.

John Pezzlo

12 September 2005

A handwritten signature in black ink, appearing to read 'J. Pezzlo', with a stylized flourish at the end.

**JOHN PEZZLO
PRIMARY EXAMINER**